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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		·	ATTORNEY DOCKET NO.
09/317,409	05/24/99	LUCAS		S	1590.3039
005514		I Maa 707 a 0	\neg	EXAMINER	
	CELLA HAR	IM22/0620 PER & SCINTO		BEFUM	īī
30 ROCKEFEL				ART UNIT	PAPER NUMBER
NEW YORK NY	/ 10112			1771 DATE MAILED:	12
					06/20/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

•	Application No.	Applicant(s)					
Office Action Summary	09/317,409	LUCAS ET AL.					
omec Action Gummary	Examiner	Art Unit					
	Jenna-Leigh Befumo	1771					
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut. - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). - Status	136 (a). In no event, however, may a roll within the statutory minimum of thirt will apply and will expire SIX (6) MON te, cause the application to become AB	reply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 20	<u> April 2001</u> .						
2a) ☐ This action is FINAL . 2b) ☒ T	his action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-12,39-46,55,57-76 and 87</u> is/are p	ending in the application.						
4a) Of the above claim(s) <u>1-12,39-46,60-76 ar</u>	nd 87 is/are withdrawn from	consideration.					
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>55</u> is/are rejected.							
7)⊠ Claim(s) <u>57-59</u> is/are objected to.							
8) Claims are subject to restriction and/o	or election requirement.						
Application Papers							
9) The specification is objected to by the Examir	ner						
	to by the Examiner.						
	-	disapproved					
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved. 12) ☐ The oath or declaration is objected to by the Examiner.							
	ZABITINE).						
Priority under 35 U.S.C. § 119							
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
 Certified copies of the priority documen 	ts have been received.						
2. Certified copies of the priority documen	ts have been received in Ap	oplication No					
 3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).	- 11					
14) Acknowledgement is made of a claim for dom	•						
,	and promy under do 0.0.	3					
Attachment(s)							
 15) Motice of References Cited (PTO-892) 16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	19) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)					

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DETAILED ACTION

Continued Prosecution Application

1. The request filed on April 20, 2001 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/317409 is acceptable and a CPA has been established. An action on the CPA follows.

Response to Amendment

- 2. Amendment A, submitted as Paper No. 11 on April 20, 2001, has been entered. Claims 13-38, 47-54, 56, and 77-86 have been cancelled. Claims 55 and 57-59 have been amended. Therefore, the pending claims are 1-12, 39-46, 55, 57-76, and 87. Claims 1-12, 39-46, 60-76, and 87 are withdrawn from consideration as being drawn to a non-elected invention.
- 3. Amendment A is sufficient to withdraw the USC 112 2nd paragraph rejection set forth in section 3 of the previous Office Action.
- 4. Amendment A is sufficient to overcome the USC 102 rejection over Cordova et al. (4,857,405) and the USC 102/103 rejections over Robinson (4,695,501) and over Hirschbueler et al. (4,539,253) set forth in sections 5 8 of the previous Office Action. The amended claim is now drawn to a stiffness-treated prepreg ply in a honeycomb sandwich precursor structure instead of just the stiffness-treated prepreg ply. Thus, the rejections are withdrawn.

Claim Objections

5. Claims 57 – 59 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claims, or amend the claims to place the claims in proper dependent form, or rewrite

the claims in independent form. Claims 57 – 59 depend from claim 56 which has been cancelled. These claims have not been further examined at this time.

Claim Rejections - 35 USC § 102/103

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 8. Claim 55 is rejected under 35 U.S.C. 102(e) as being anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Corbett et al. (5,895,699).

Corbett et al. discloses a honeycomb composite shown in Figure 1 and 2. Figure 1 shows that there are two outer prepreg layers surrounding a honeycomb core. Figure 2 shows, in more detail, the outer layers and how they are connected to the honeycomb core. The skin layer 102 comprises multiple prepreg sheets comprising carbon fiber impregnated with bismaleimide thermoset resin (column 4, lines 64-67). Next is an adhesive layer 108 tailored to achieve an adequate bond between the skin 102 and the barrier film 110 (column 5, lines 1-2). A second adhesive layer 112 comprising a scrim supported adhesive, bonds the barrier film 110 to the honeycomb core 106. Thus, Corbett et al. teaches a core with two outer prepreg plies. At least one outer ply comprises the skin layers, which would equate to Applicants claimed stiffnesstreated fabric, a fabric with a polymeric material, the bismaleimide thermoset resin, disposed on

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at least some of the fibers. The composite taught by Corbett et al. further comprises the adhesive layer adjacent the skin layer, or Applicant's claimed resin system. Thus, the skin layer 102 and the adhesive layer 108 form Applicant's stiffness-treated prepreg ply.

The limitation of greater frictional resistance between a stiffness-treated prepreg ply and another stiffness-treated or untreated prepreg ply than two untreated prepreg plies is not given patentable weight at this time. First the limitation as written, refers to the frictional resistance when the stiffness-treated prepreg ply is "disposed on a second prepreg ply." However, as claimed the honeycomb sandwich precursor comprises a honeycomb core between the two prepreg plies. Thus, the stiffness-treated prepreg ply is not adjacent to the other prepreg layer. Hence, the frictional resistance is not a positive limitation of the honeycomb sandwich precursor since the stiffness-treated prepreg would be capable of the claimed frictional resistance if it were "disposed on a second prepreg ply." Since the claims only requires the ability of the stiffness-treated prepreg ply to have an increased frictional resistance than it does not constitute a limitation in the patentable sense.

In the alternative, if the limitation were given patentable weight, it is presumed that the frictional resistance would be inherent to the stiffness-treated prepreg plies taught by Corbett et al. Support for said presumption is found in the use of similar materials (i.e. prepregs made with disposed on the fabric and a resin systems) and in the similar production steps (i.e. plying the prepregs to the honeycomb core) used to produce the honeycomb composite structure. The burden is upon the Applicant to prove otherwise. *In re Fitzgerald*, 205 USPQ 594. In the alternative, the claimed frictional resistance would obviously have been provided by the process disclosed by Corbett et al. *In re Best*, 195 USPQ 433, footnote 4 (CCPA 1977) as to the

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providing of this rejection under 35 USC 103 in addition to the rejection made above under 35 USC 102. Thus, claim 55 is anticipated by Corbett et al.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenna-Leigh Befumo whose telephone number is (703) 605-1170. The examiner can normally be reached on Monday - Friday (8:00am - 4:30pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terrel Morris can be reached on (703) 308-2414. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3599 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Jenna-Leigh Befumo

June 15, 2001

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